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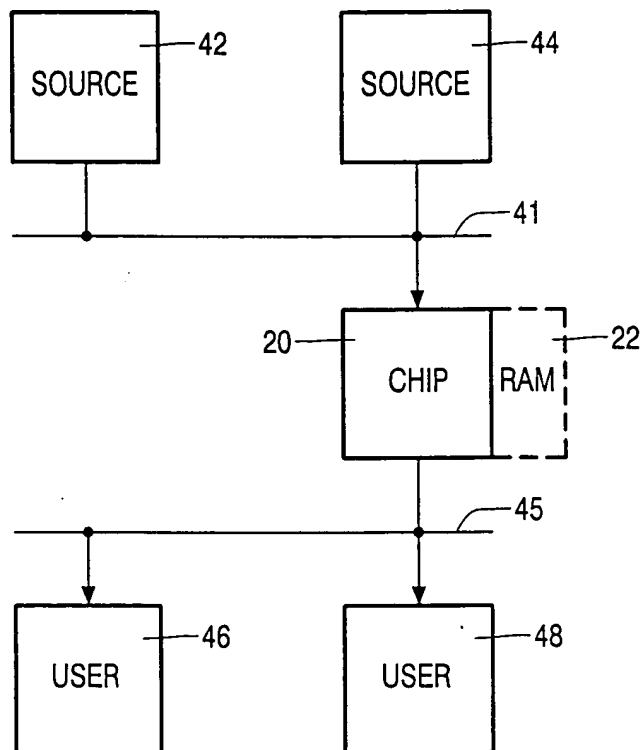


FIG. 1

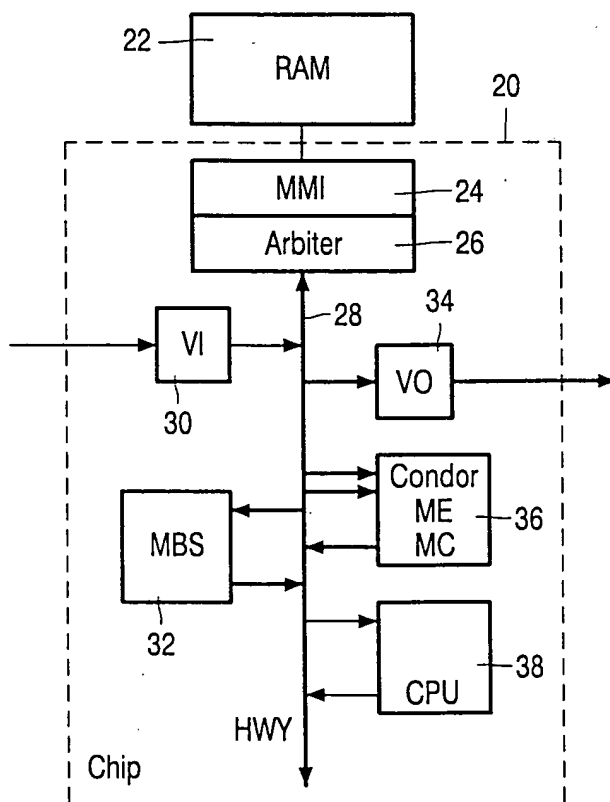


FIG. 2

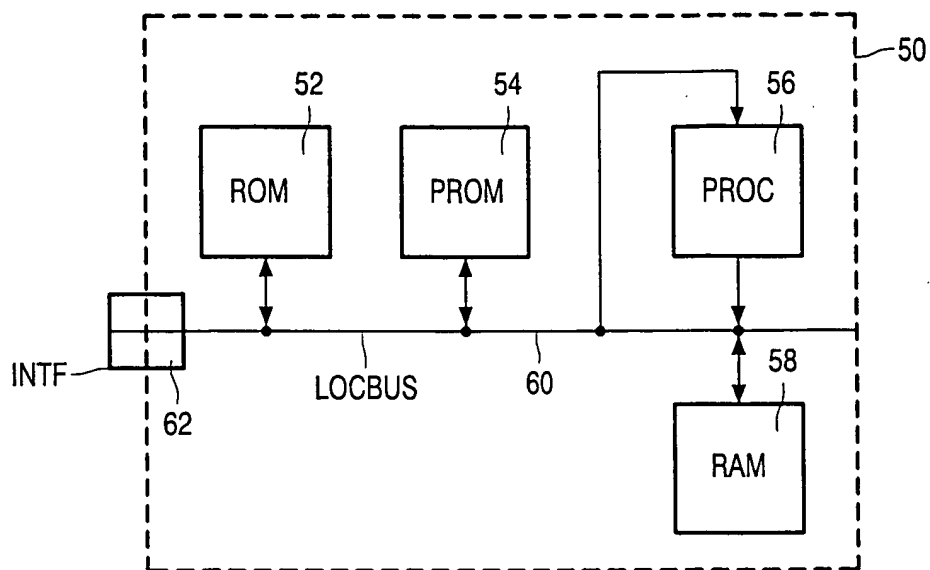


FIG. 3

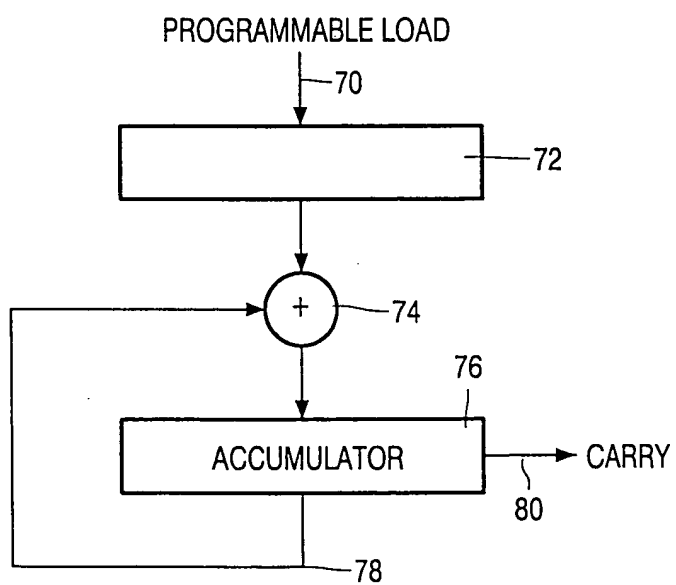


FIG. 4

Table 1 Highway data transfers for 128x8 pixels for frm-fld scalability

	ME	MC with 50i/60i output	MC with 100i/120i or 50p/60p output	MC with 100p/120p
Prev. frame input	2 x 8	2 x 8	2 x 8	2 x 8
Curr. field input	2 x 4	2 x 4	2 x 4	2 x 4
Next frame input	2 x 4	2 x 4	2 x 4	2 x 4
Vector input	4	1	1	1
Vector output	1			
SAD best output	1			
SAD sel. output	1			
Rec. frame output		8	8	8
Both display outputs		4	8	2 x 8
Total Transfer	39	45	49	57
Total Bytes ^a	4992	5760	6272	7296

a. All transfers are 128 bytes.

FIG. 5

Table 2 Data rates during ME/MC for frm-fld-fld scalability

	ME	MC 50i/60i	MC 100i/120i or 50p/60p	MC 100p/120p
Bytes	4992	5760	6272	7296
Cycles	1024	1600	1600	1600
Bytes/Cycle	4.88	3.60	3.92	4.56
MBytes/sec.	732	540	588	684

FIG. 6